

**Flood Control Project Maintenance
Levee Inspections**

Fall 2015 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

NA0018	Overall LMA Rating	Total LMA Miles						
California Department of Fish and Game Shea Levee	U	0.30						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.27		0.27	89.87%				
Trim / Thin Trees	0.26		0.26	86.55%				
Animal Control	0.08		0.08	26.63%				
Operations & Maintenance Manuals	0.01		0.01	3.33%				
Emergency Supplies & Equipment	0.01		0.01	3.33%				
Flood Preparedness & Training	0.01		0.01	3.33%				
<i>LMA Totals:</i>	0.64	0.00	0.64	213.03%	0.00	0.00	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2015 Levee Inspection Results

California Department of Fish and Game Shea Levee

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2015 Levee Inspection Results

California Department of Fish and Game Shea Levee

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	0.30
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	04/08/2015 - 04/08/2015		09/25/2015 - 09/25/2015	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Michael Harris Department of Fish and Game		Michael Harris Department of Fish and Game	

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- completion of the inspection
- any changes other than the results of normal maintenance
- corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2015

California Department of Fish and Game Shea Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.30	09/25/2015 09/25/2015	Bob Duffey

LM Start		Rating **	M	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0018_01_s _ 2013_7				
Action/Comments					
Inspector Comments: Fish and Wildlife Service will not call me back and I was unable to verify the manual.					

No Photos

LM Start		Rating **	M	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_NA0018_01_s _ 2012_8				
Action/Comments					
Inspector Comments: The LMA has not completed any training and does not have an available flood plan.					

No Photos

LM Start		Rating **	M	Issue No.	10
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0018_01_s _ 2013_10				
Action/Comments					
Inspector Comments: The Fish and Wildlife Service will not call me back and I was unable to verify their supplies.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

California Department of Fish and Game Shea Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.30	09/25/2015 09/25/2015	Bob Duffey

LM Start	0.00	Rating **	M	Issue No.	2
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.508138 °	40.508138 °
				-122.363480 °	-122.363480 °
DWR ID	DWR_NA0018_01_s _ 2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: California Department of Fish and Wildlife has not completed any maintenance this year.					

Photo 1 of 2 : FA_2015_NA0018_269_2_20150910_00002.jpg



View of the levee with no maintenance done.

LM Start	0.00	Rating **	M	Issue No.	2 (cont)
LM End	0.07	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_NA0018_269_2_20151012_00006.jpg



View of the levee with no maintenance done.

LM Start	0.00	Rating **	M	Issue No.	9
LM End	0.21	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			40.509012 °	40.510649 °
				-122.362609 °	-122.360945 °
DWR ID	DWR_NA0018_01_f _ 2012_9				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Fish and Wildlife Service has not completed any maintenance.					

Photo 1 of 2 : FA_2015_NA0018_269_9_20150910_00005.jpg



Remove the small trees along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2015

California Department of Fish and Game Shea Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.30	09/25/2015 09/25/2015	Bob Duffey

LM Start	0.00	Rating **	M	Issue No.	9 (cont)	
LM End	0.21	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees			40.509012 °	40.510649 °	
				-122.362609 °	-122.360945 °	
DWR ID	DWR_NA0018_01_f _ 2012_9					
Action/Comments						
Thin trees to allow visibility of the ground and room to flood fight. Inspector Comments: Fish and Wildlife Service has not completed any maintenance.						

Photo 2 of 2 : FA_2015_NA0018_269_9_20151012_00007.jpg



Remove the small trees along the landside slope.

LM Start	0.10	Rating **	M	Issue No.	1
LM End	0.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			40.511185 °	40.510670 °
				-122.360553 °	-122.361203 °
DWR ID	DWR_NA0018_01_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Fish and Wildlife Service has not completed any maintenance.					

Photo 1 of 2 : FA_2015_NA0018_269_1_20150910_00001.jpg



View of the blackberries and other vegetation along the landside slope.

LM Start	0.10	Rating **	M	Issue No.	1 (cont)
LM End	0.30	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2015_NA0018_269_1_20151012_00008.jpg



View of the blackberries and other vegetation along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2015

California Department of Fish and Game Shea Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.30	09/25/2015 09/25/2015	Bob Duffey

LM Start	0.21	Rating **	M	Issue No.	4
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			40.511518 °	40.508234 °
				-122.360100 °	-122.363430 °
DWR ID	DWR_NA0018_01_s _ 2012_4				
Action/Comments					
Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comments: Trim the trees along the waterside slope.					

Photo 1 of 2 : FA_2015_NA0018_269_4_20150910_00003.jpg



Trim the trees along the waterside slope.

LM Start	0.21	Rating **	M	Issue No.	4 (cont)
LM End	0.26	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : FA_2015_NA0018_269_4_20151012_00009.jpg



Trim the trees along the waterside slope.

LM Start	0.22	Rating **	M	Issue No.	6
LM End	0.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			40.510671 °	40.511185 °
				122.360944 °	122.360553 °
DWR ID	DWR_NA0018_01_s _ 2013_6				
Action/Comments					
Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comments: The livestock damaged the L/S slope.					

Photo 1 of 2 : FA_2015_NA0018_269_6_20150910_00004.jpg



View of the livestock erosion along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Fall 2015

California Department of Fish and Game Shea Levee

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	0.30	09/25/2015 09/25/2015	Bob Duffey

LM Start	0.22	Rating **	M	Issue No.	6 (cont)	
LM End	0.30	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			40.510671 °		40.511185 °
				122.360944 °		122.360553 °
DWR ID	DWR_NA0018_01_s _ 2013_6					
Action/Comments						
Repair the levee slope damaged by livestock and prevent large animal access.						
Inspector Comments: The livestock damaged the L/S slope.						

Photo 2 of 2 : FA_2015_NA0018_269_6_20151012_00010.jpg



View of the livestock erosion along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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